

Claims

1. Method for preservation storage of green round wood and sawn timber in which
 - green round wood or sawn timber is stocked under an air-tight and light-tight cover,
 - oxygen inside said cover is digested by respiratory and fermentation processes performed by fungi, bacteria, and respiratory processes of wood cells that are still alive thereby forming CO₂, H₂O and organic acids whereby, essentially, hemicelluloses and sugars are metabolized,
 - thus, the oxygen content inside the cover is less than 0.1 vol.-% after an adjustment period of 3-10 days during the entire storage time, and the CO₂ content is higher than 21 and up to 40 vol.-%.
2. Method to Claim 1 in which, in order to reduce the adjustment time, the CO₂ content is adjusted to be over 21 vol.-% immediately after the beginning of the storage by means of an additional fumigation with CO₂.
3. Method to Claim 1 or 2 in which before the beginning of the respiratory and fermentation processes, the volume of air inside the cover is minimized.
4. Method to Claim 1 to 3 in which a rigid or flexible envelope is used as cover, whereby the space inside the cover is sealed air-tightly and light-tightly from the environment.
5. Method to Claim 1 to 4 in which a single or double, UV-resistant plastic film with a high diffusion resistance is used as the cover.
6. Method to Claim 5 in which a single or double, two-layered film is used whose black internal surface prevents the light from entering and thereby growth of algae, and whose white external surface reflects the sunlight.
7. Method to Claim 5 or 6 in which the films are welded either separately or simultaneously with double welds.
8. Method to Claim 5 or 6 in which the films are bonded with each other.

not in spec

Sub B1

not in spec

not in spec

not in spec

9. Method to Claim 5 and 6 in which the films are arranged plane on top of each other, clamped between two strips, tightly wrapped around said strips, and secured using a clamping device.
10. Method to Claim 1 to 9 in which gas measuring flexible tubes that penetrate the films are attached to the films using bulkhead fittings.
11. Method to Claim 4 or 10 in which the bulkhead fittings are provided with extension hoses inside the cover, and the hose ends are laid showing to opposing sides of the space inside the cover.
12. Method to Claim 11 in which measuring instruments are connected to the gas measuring flexible tubes through quick-connect couplings, with which measuring instruments the storage process can be checked via the gas composition.
13. Method to Claim 4 in which containers or holds are used as rigid encapsulations.
14. Method to Claim 13 in which the containers or holds are supplied with exhaust gases from the combustion processes of the transportation means, or stationary plant, respectively.

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